



Isoplast® 101 LGF 60 ETP

Lubrizol Advanced Materials, Inc. - Engineering Thermoplastic Polyurethane

Wednesday, November 6, 2019

General Information

Product Description

Type: Isoplast® 101 LGF 60 Natural is an engineering thermoplastic polyurethane resin.

General

Material Status	• Commercial: Active
Availability	• Asia Pacific • Latin America • North America
Filler / Reinforcement	• Long Glass Fiber, 60% Filler by Weight
Appearance	• Natural Color
Forms	• Pellets

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.71		ASTM D792
Molding Shrinkage - Flow	1.0E-3 to 3.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2.47E+6	psi	ASTM D638
Tensile Strength (Yield)	32900	psi	ASTM D638
Tensile Strength (Break)	32900	psi	ASTM D638
Tensile Elongation (Yield)	2.0	%	ASTM D638
Tensile Elongation (Break)	2.0	%	ASTM D638
Flexural Modulus	2.18E+6	psi	ASTM D790
Flexural Strength	57000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°F, 0.126 in	16	ft-lb/in	
73°F, 0.126 in	16	ft-lb/in	
Instrumented Dart Impact			ASTM D3763
-20°F	221	in-lb	
73°F	257	in-lb	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
264 psi, Unannealed	261	°F	
Deflection Temperature Under Load (264 psi, Annealed)	261	°F	ASTM D648
Vicat Softening Temperature	367	°F	ASTM D1525
CLTE - Flow	6.1E-6	in/in/°F	ASTM D696

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	176 to 212	°F
Processing (Melt) Temp	464 to 500	°F
Mold Temperature	149 to 194	°F

Notes

¹ Typical properties: these are not to be construed as specifications.